



## DECLARATION

As a below named inventor, I declare that:

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My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **AUTOMATIC DATA CPU LOAD REDUCTION IN A HOST-SIGNAL PROCESSING (HSP) BASED ADSL MODEM** the specification of which was filed on March 15, 2000 as Application No. 09/526,646.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Full Name of Inventor 1:	Last Name: <b>LIU</b>	First Name: <b>Ming-King "Max"</b>	Middle Name or Initial:	
Residence & Citizenship:	City: <b>Cupertino</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>China</b>	
Post Office Address:	Post Office Address: <b>20375 Silverado Avenue</b>	City: <b>Cupertino</b>	State/Country: <b>California</b>	Postal Code: <b>95014</b>
Full Name of Inventor 2:	Last Name: <b>CHEN</b>	First Name: <b>STEVE</b>	Middle Name or Initial:	
Residence & Citizenship:	City: <b>San Jose</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>United States</b>	
Post Office Address:	Post Office Address: <b>1855 Wembley Court</b>	City: <b>San Jose</b>	State/Country: <b>California</b>	Postal Code: <b>95132</b>
Full Name of Inventor 3:	Last Name: <b>TSAO</b>	First Name: <b>MICHAEL</b>	Middle Name or Initial:	
Residence & Citizenship:	City: <b>Sunnyvale</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>China</b>	
Post Office Address:	Post Office Address: <b>928 Populus Place</b>	City: <b>Sunnyvale</b>	State/Country: <b>California</b>	Postal Code: <b>94086</b>

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1	Signature of Inventor 2	Signature of Inventor 3
Ming-King "Max" Liu	Steve Chen	Michael Tsao

Date 6/12/2000

Date 6/12/2000

Date 6/6/2000

SF 1101609 v1



Attorney Docket No. 19917-000200US

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

Applicant: LIU et al.

Application No.: 09/526,646

Filed: March 15, 2000

For: AUTOMATIC DATA CPU LOAD REDUCTION IN A HOST-SIGNAL PROCESSING (HSP) BASED ADSL MODEM

Integrated Telecom Express, a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is assignee of the patent application identified above by virtue of either:

- A.  An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_, Frame(s) \_\_\_\_, or for which a copy thereof is attached.

OR

- B.  A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_, Frame \_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_, Frame \_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_, Frame \_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 6/6/2000

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: Maryann L Tr

SF 1101712 v1

6/15/2000

VP Technology



Attorney Docket No. 19917-000200US

### POWER OF ATTORNEY BY ASSIGNEE

**Integrated Telecom Express** is the Assignee of the invention entitled: AUTOMATIC DATA CPU LOAD REDUCTION IN A HOST-SIGNAL PROCESSING (HSP) BASED ADSL MODEM, the specification of which was filed on March 15, 2000 as Application Serial No. 09/526,646.

Assignee hereby appoints the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

**Philip H. Albert**, Reg. No. 35,819  
**Gerald T. Gray**, Reg. No. 41,797  
**Horace Ng**, Reg. No. 39,315

Send Correspondence to: Philip H. Albert TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8 <sup>th</sup> Floor San Francisco, CA 94111-3834	Direct Telephone Calls to: (Name, reg. no., tele. no.)  Philip H. Albert Reg. No.: 35,819 (415) 576-0200
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**Integrated Telecom Express**

Date: 6/21/2000

By: Max Liu  
(Signature)

Name: *VP Technology*  
Title: *Max Liu*

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) & 1.27(c)) - SMALL BUSINESS CONCERN

Applicant or Patentee:  
Application or Patent No.:  
Filed or Issued:  
Title:

LIU et al.

09/526,646

March 15, 2000

Automatic Data CPU Load Reduction in a Host-Signal Processing (HSP) based ADSL Modem

I hereby declare that I am:

the owner of the small business concern identified below:

an official of the small business concern empowered to act on behalf of the concern identified below.

Name of Small Business Concern:

Integrated Telecom Express

Address of Small Business Concern:

2710 Walsh Avenue

Santa Clara, CA 95051

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled Automatic Data CPU Load Reduction in a Host-Signal Processing (HSP) based ADSL Modem by inventor(s) described in:

the specification filed herewith;

Application No. 09/526,646, filed March 15, 2000;

Patent No. , issued .

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern that would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

\*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

Name:  
Address:

 Individual Small Business Concern Nonprofit Organization

Name:  
Address:

 Individual Small Business Concern Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing:  
Title of Person if Other than Owner:  
Address of Person Signing:

2710 Walsh Avenue  
Santa Clara, CA 95051

Signature

Date

6/6/2000

6/15/2000

SF 1101610 v1